

FIG. 1B

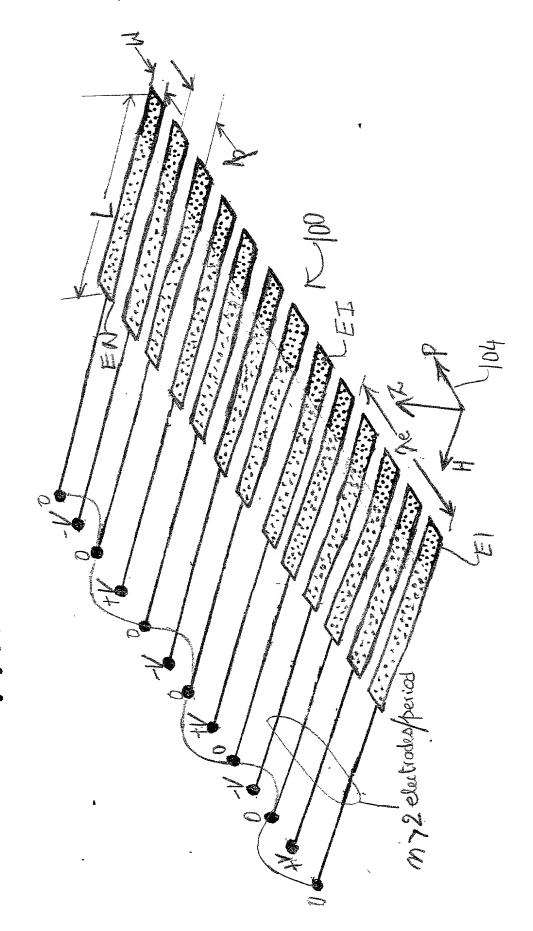
select a mathematical model of to-be-synthesized electric field

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determine, based on the mathematical model, a number of voltage levels V1-VN to be applied to corresponding electrodes E1-EN,

each voltage level VI to be applied at electrode EI may be different from voltage levels to be applied at successive but non-adjacent electrodes EI+2 and EI-2

apply voltage levels V1-VN to electrodes E1-EN, independently Wavelength Agile Laser Inventors: Woodley and MacKinnon M-12004 US 3 of 34



F/G. 2A

FIG. 2B

select a mathematical model of a to-be-synthesized electric field

that is periodic in space, with more than two electrodes per period

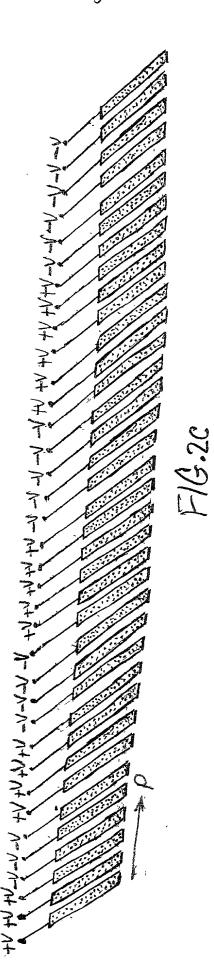
determine, based on the mathematical model, a number of voltage levels V1-VN to be applied to corresponding electrodes E1-EN,

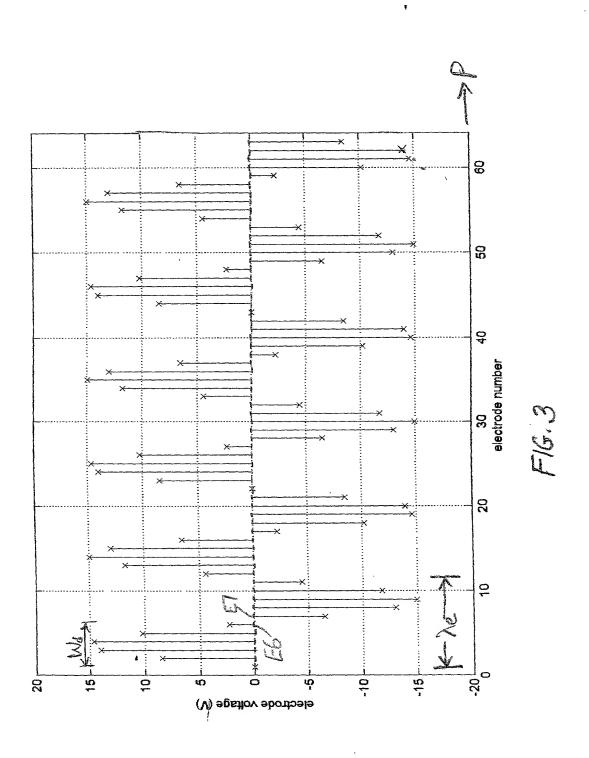
each voltage level VI to be applied at electrode EI may be different from voltage levels to be applied at successive but non-adjacent electrodes EI+2 and EI-2

apply voltage levels V1-VN to electrodes E1-EN, independently

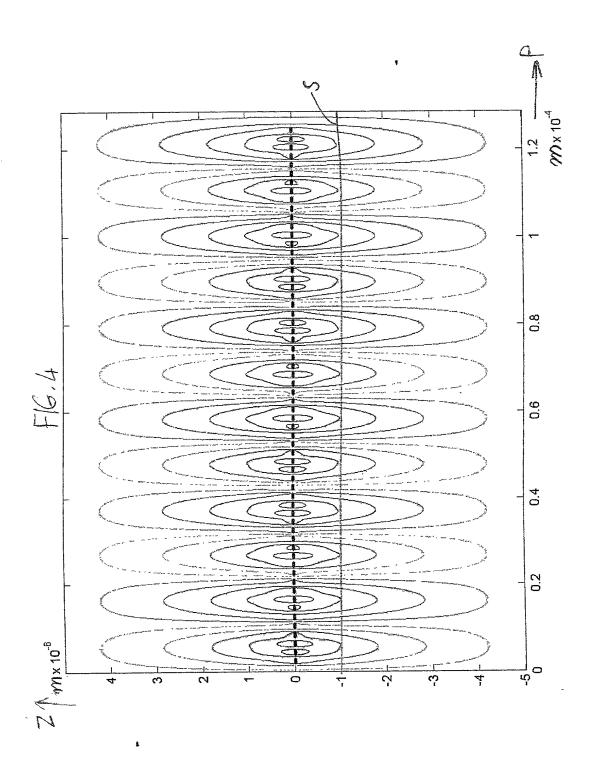
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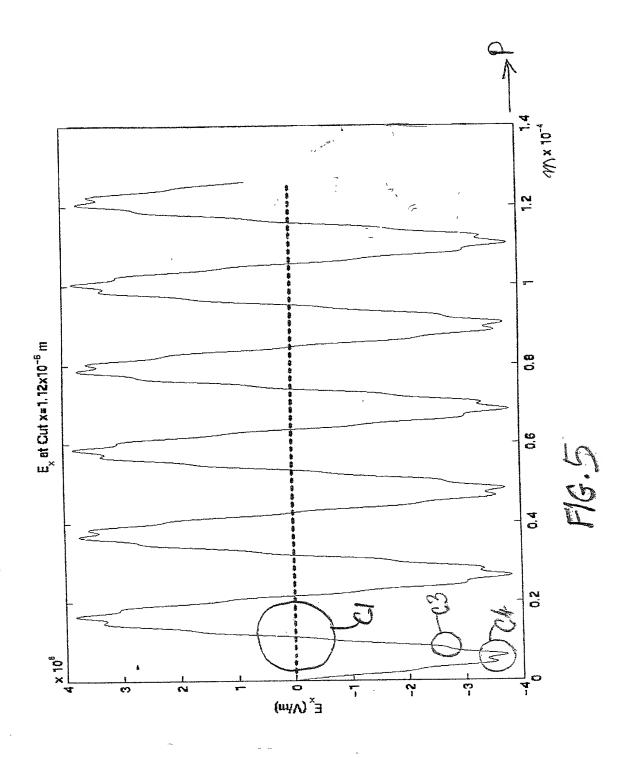
-102



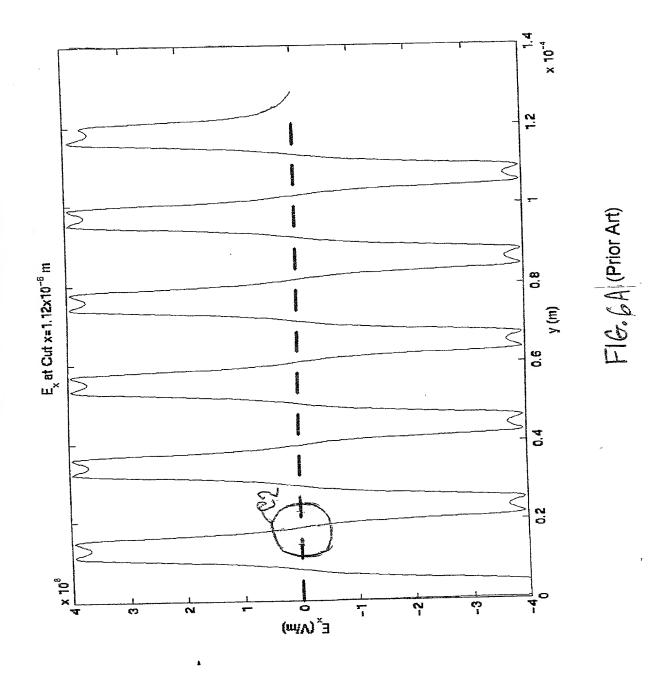


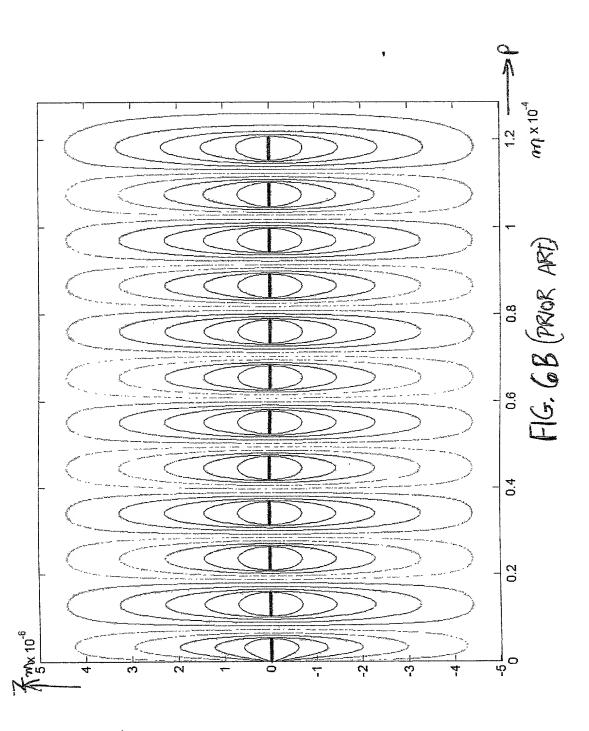
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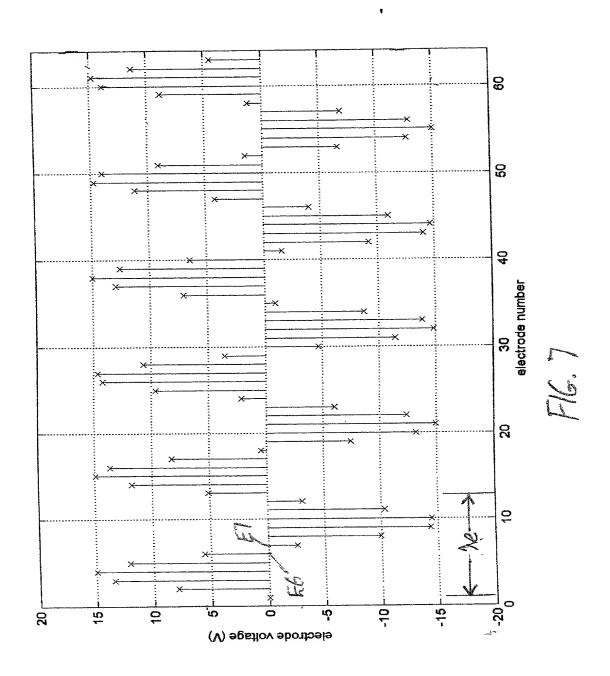


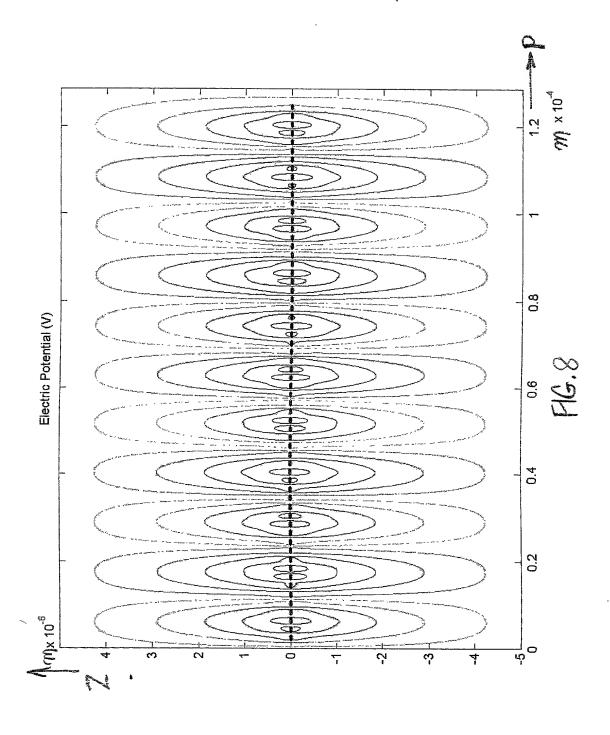


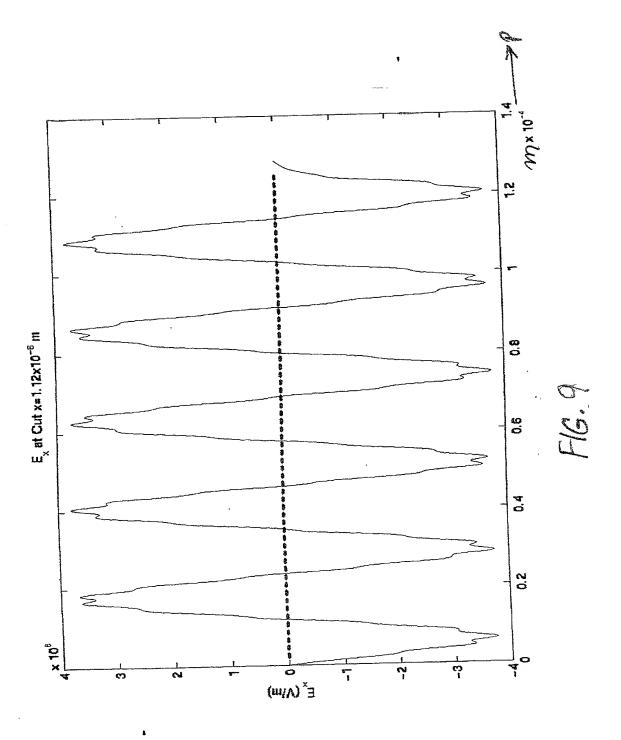


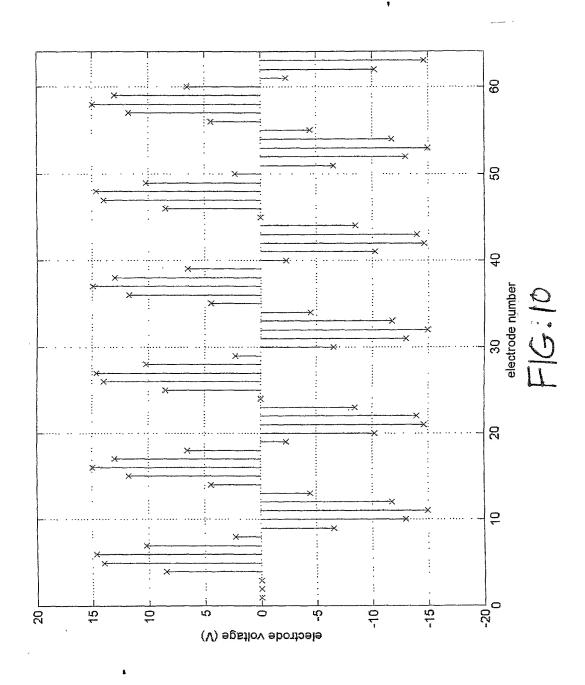


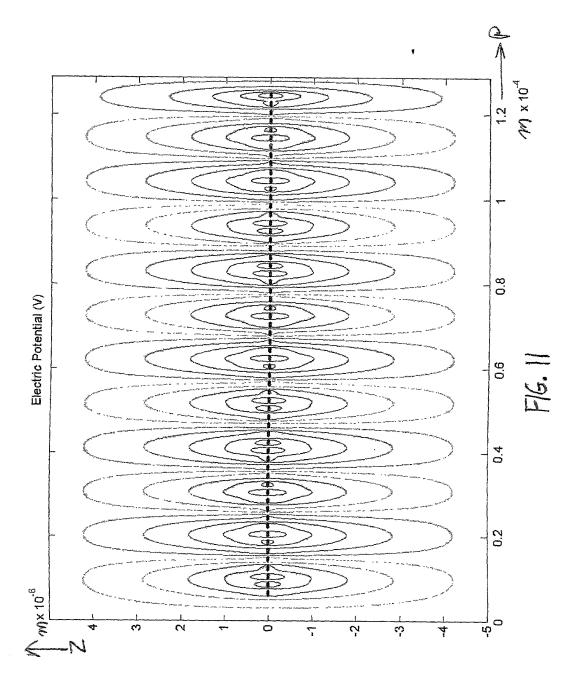


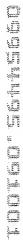


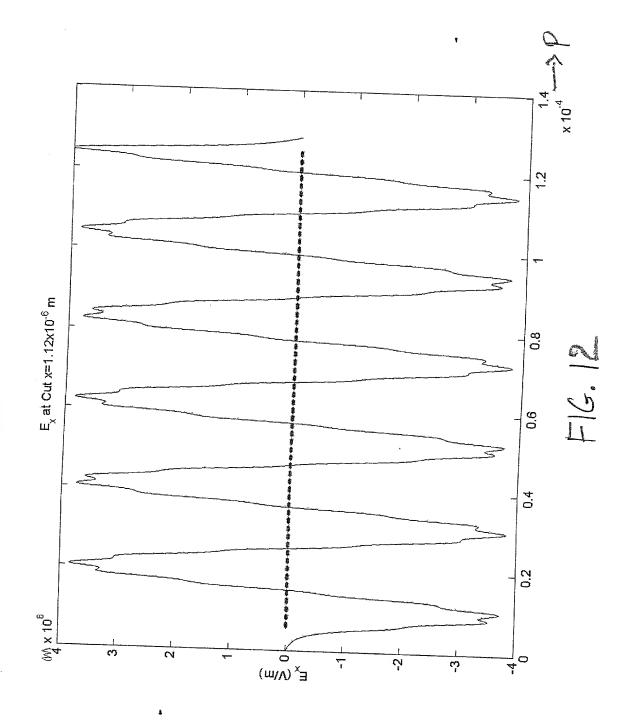


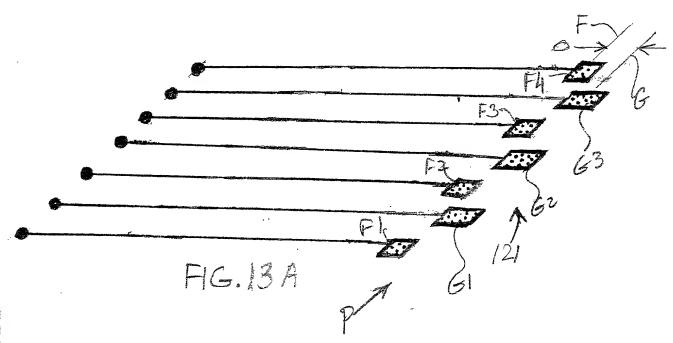


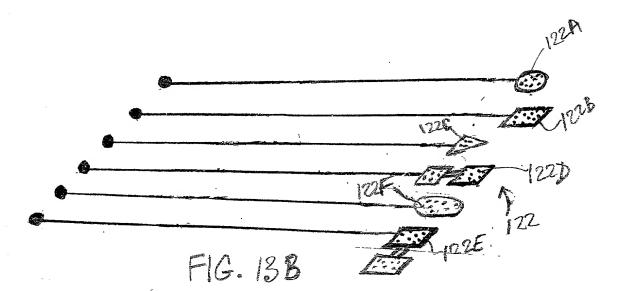


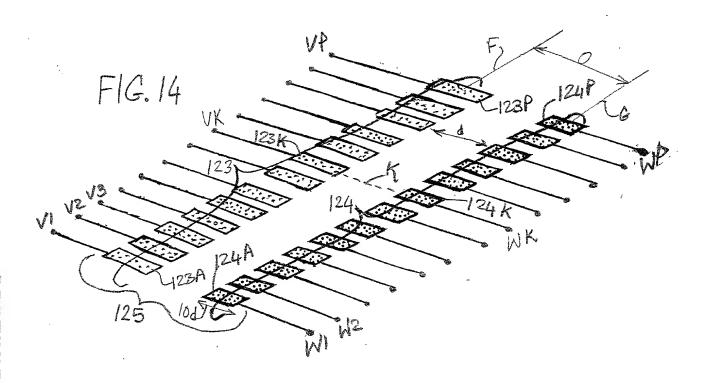


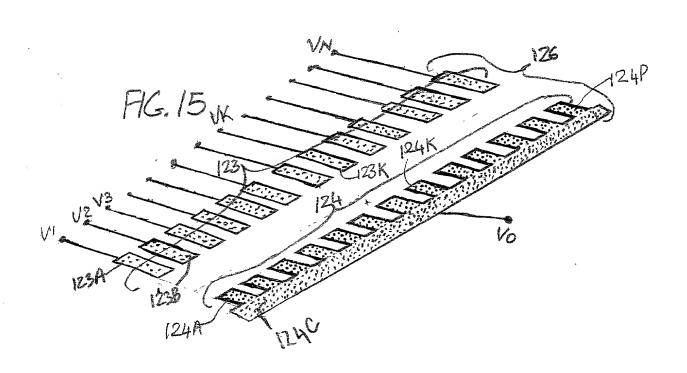




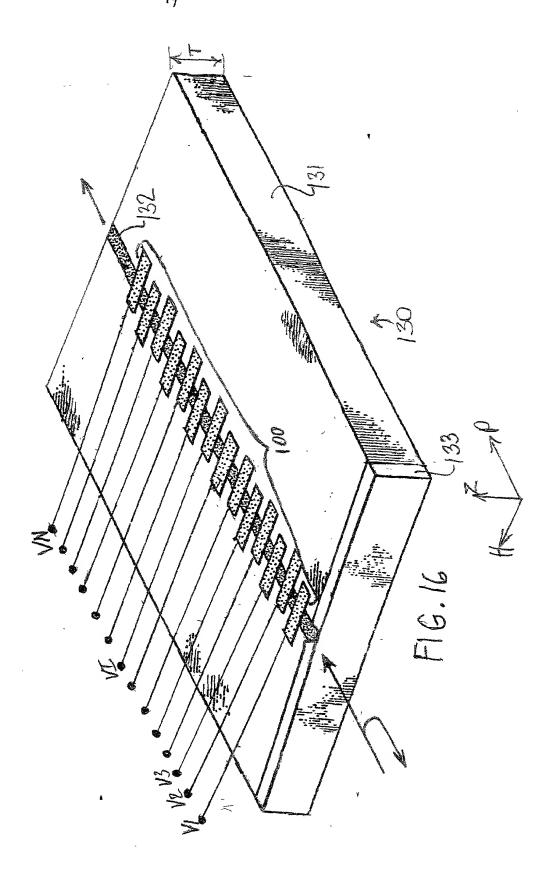


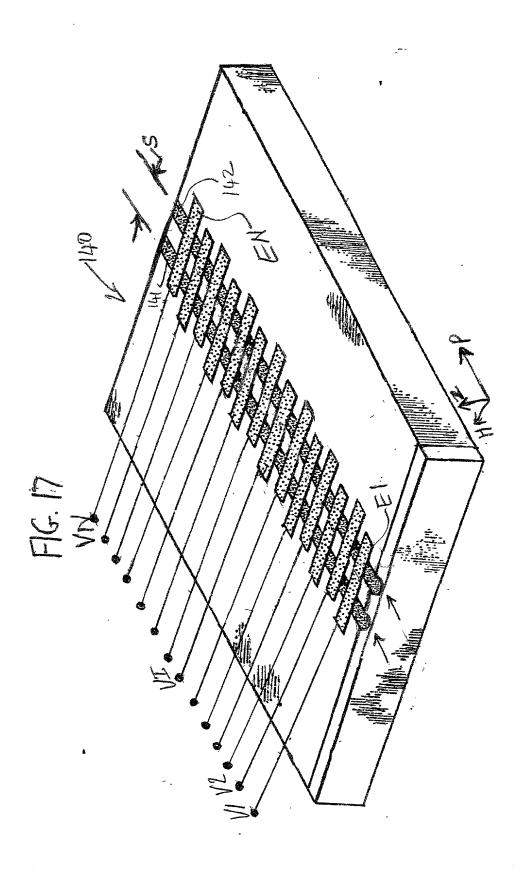


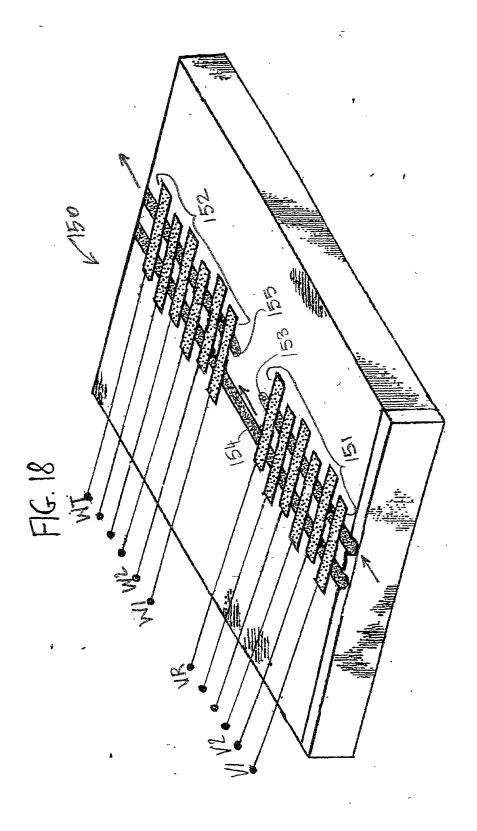




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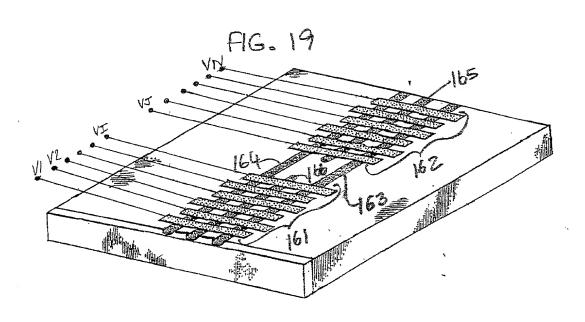


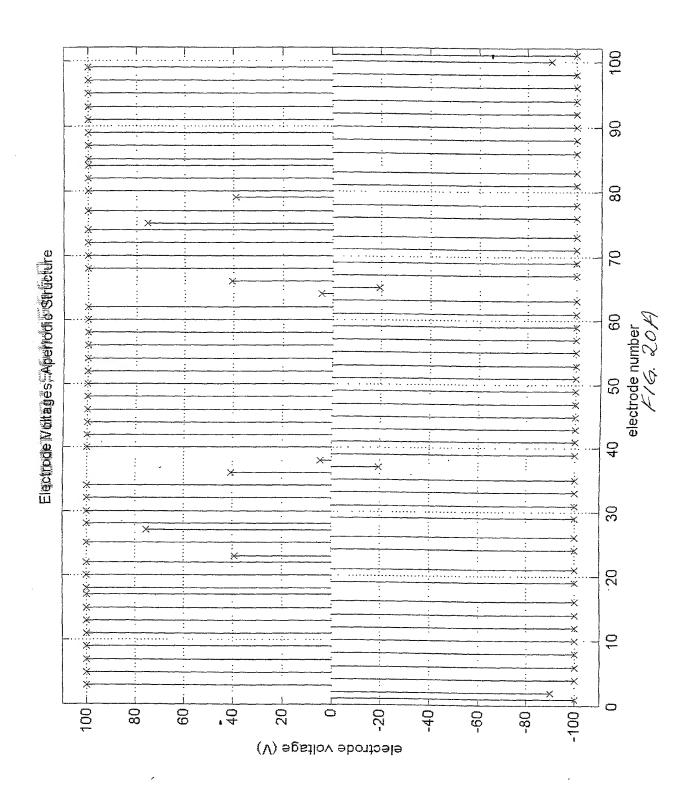


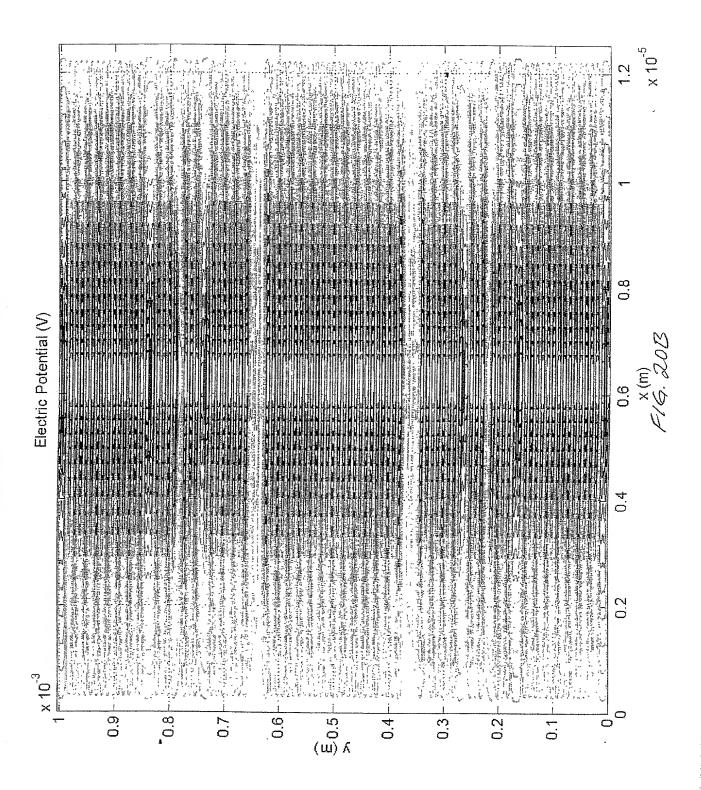
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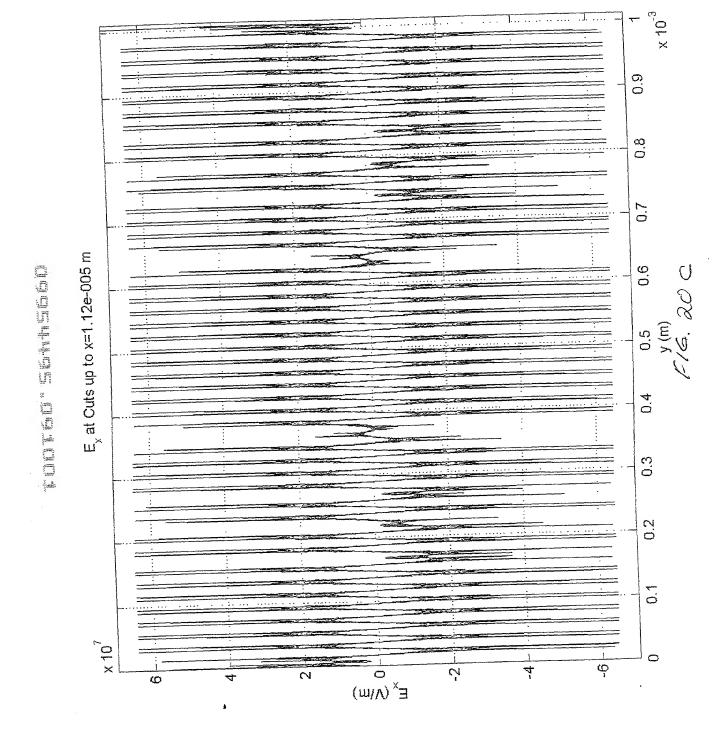
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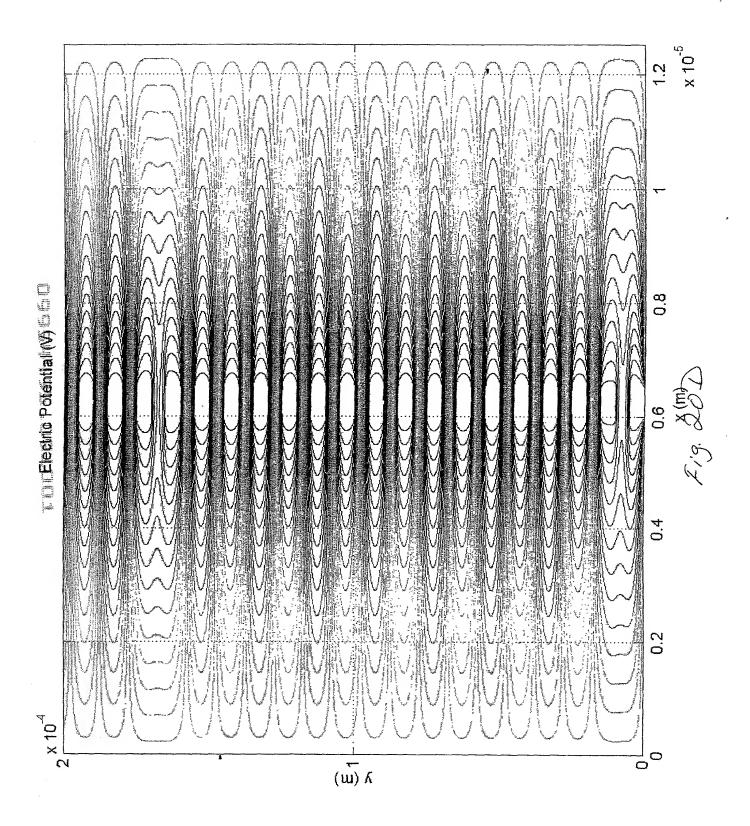
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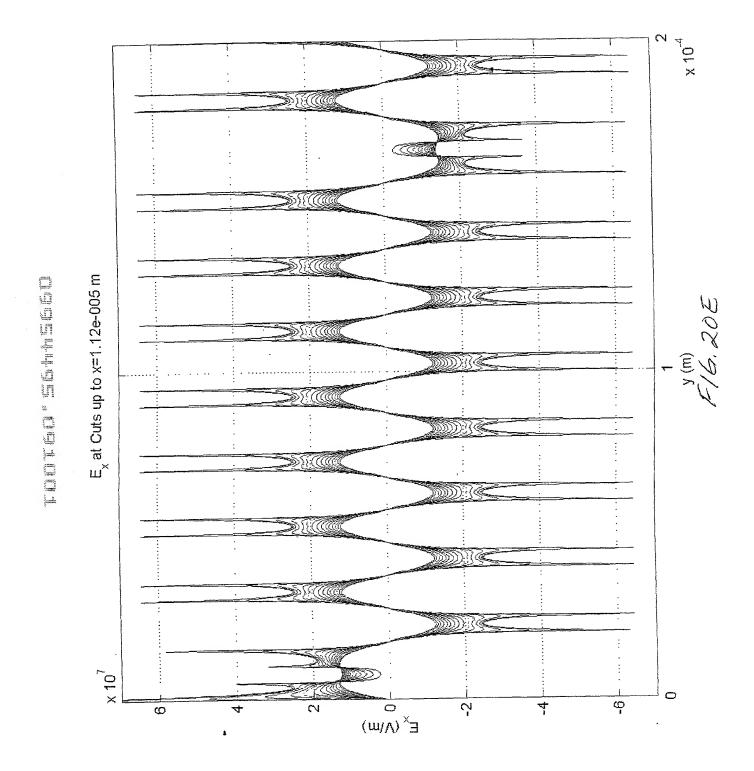




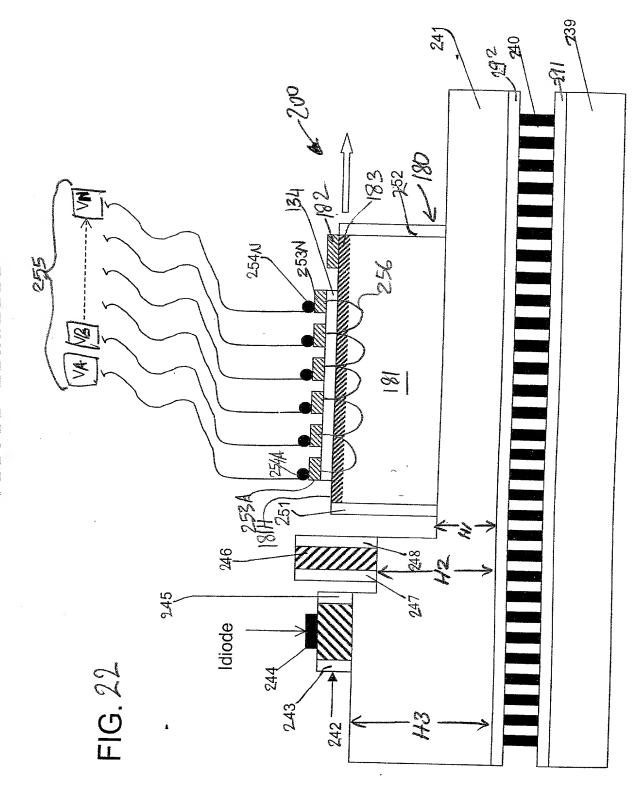




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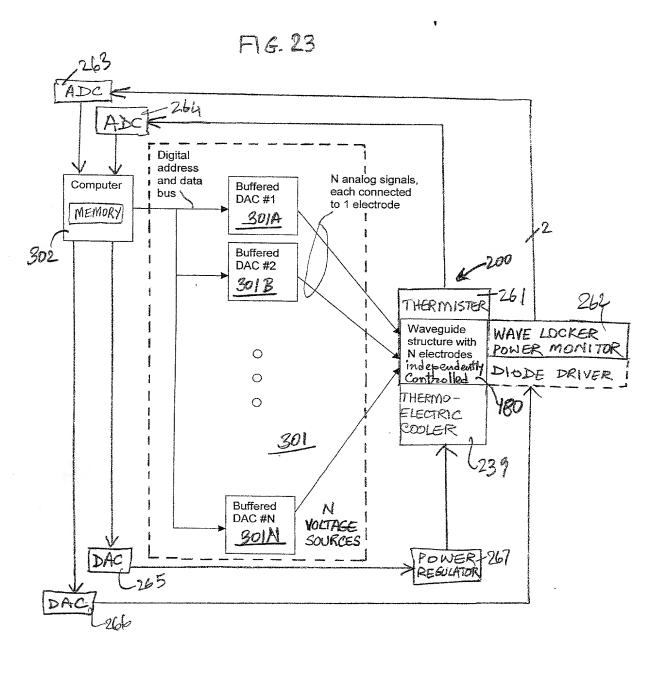
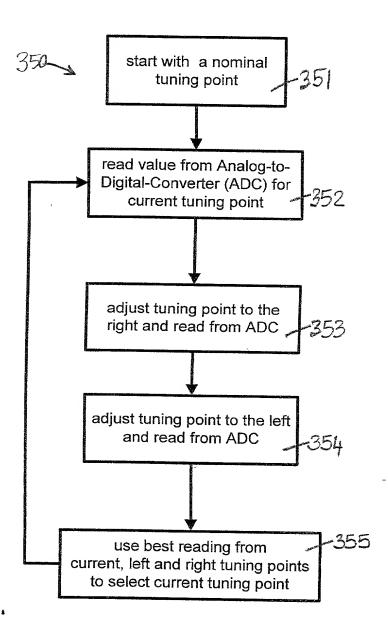
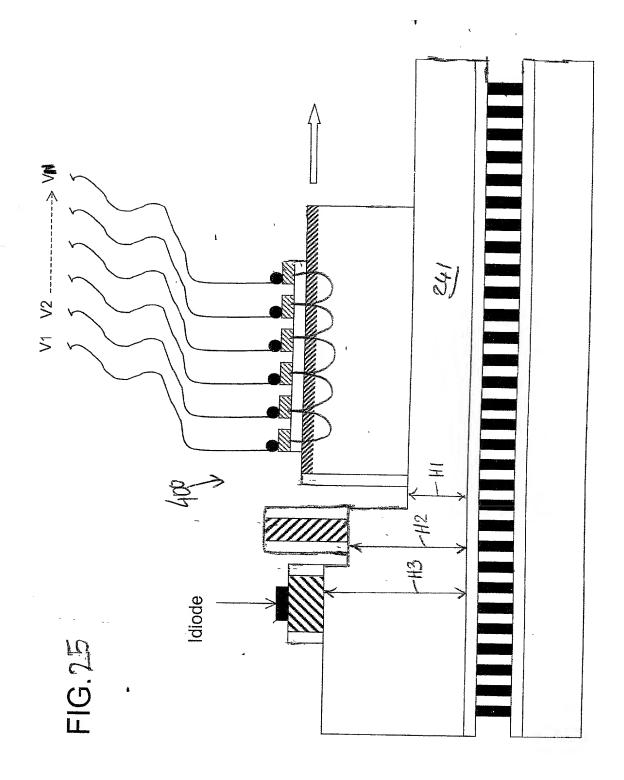


FIG. 24





Digital address and data bus

Computer

Double buffered DAC #1

Double buffered DAC #2

Double buffered DAC #2

